

Vivek Dagar

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EDUCATION

Galgotias University, Greater Noida 2021 - 2025
Bachelors of Technology in Computer Science & Engineering with Specialization in Artificial Intelligence Current CGPA: 8.33/10.0

Saraswati Bal Mandir Sr. Sec. School, New Delhi 2019 - 2021
Class XII Percentage: 75.4%

St. John's School, New Delhi 2007 - 2019
Class X(CBSE) Percentage: 70.6%

PROJECTS

Boggle Word Solver in Python December 2023

A Boggle game solver that finds valid words on a 4x4 grid using a custom word database.

- **Engineered** key components to drive the identification of valid words on a **4x4 grid** through a **custom** word database.
- **Implemented** a **recursive** depth-first search (**DFS**) algorithm to systematically explore all possible paths on a 4x4 grid, enhancing the **efficiency** of word identification during gameplay
- **Comprehensively** documented the project, showcasing **strong** communication and user guidance for installation & usage.

DebEase: A Full Stack application using Django, Bash and Puppet November 2023

A full stack app for automation on Debian-based systems.

- **Crafted** a **Full-Stack** Web App using **Django**, **HTML**, **CSS**, **Bash** and **Puppet** for automation on Debian-based systems.
- **Designed** an **intuitive web interface** for users to select and execute desired **system configuration tasks**.
- **Implemented** and orchestrated a **comprehensive** array of system configurations, encompassing the installation of desktop managers, GPU drivers, and terminal customization.
- **Implemented** a **structured organization** by segregating directories for the Django app, resources, and backend scripts, thereby **enhancing overall readability**."

Tic Tac Toe in Python April 2023

Classic two-player Game with a dedicated menu that also shows scorecard for each session

- **Demonstrated** code modularity, **robust** exception handling, visual data presentation, and **object-oriented** principles.
- **Implemented** a game menu using **tabulate** library featuring options to play, view scorecard, and quit for **interactive** control.

SKILLS

- **Programming Languages:** C++, Python
- **Web Development:** Django, HTML5
- **Software Development and Engineering:** Version Control (Git), Unit Testing in Python, Object-Oriented Programming (OOP)
- **IT Automation:** Puppet (Configuration Management Tool), Troubleshooting & Debugging
- **Prompt Engineering**
- **Problem Solving & Communication**

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Google IT Automation with Python Sep 2023
Coursera

CS50P: Introduction to Programming with Python Mar 2023
Harvard University

CS50X: Introduction to the Intellectual Enterprises of Computer Science and the Art of Programming Feb 2023
Harvard University

LANGUAGES

- **English:** Highly Proficient
- **Hindi:** Native